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Entry 1 of 1

File: DWPI

Jan 31, 1996

DERWENT-ACC-NO: 1995-106968

DERWENT-WEEK: 199741

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TITLE: Object oriented navigation method for computer system - navigating between remote objects associated with documents in computer system as if they reside locally

INVENTOR: ANDERSON, D R; CATLIN, T J O ; NGUYEN, F T ; CATLIN, T J

PATENT-ASSIGNEE: ; TALIGENT INC[; TALIN]

## PRIORITY-DATA:

1993US-0112821

August 25, 1993

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CN 1116007 A	January 31, 1996	N/A	000	G06F009/44
WO 9506282 A1	March 2, 1995	E	030	G06F009/44
AU 9460816 A	March 21, 1995	N/A	000	G06F009/44
US 5481666 A	January 2, 1996	N/A	016	G06F015/00
EP 699319 A1	March 6, 1996	E	001	G06F009/44
EP 699319 B1	April 2, 1997	E	030	G06F009/44
JP 09502037 W	February 25, 1997	N/A	046	G06F009/46
DE 69402417 E	May 7, 1997	N/A	000	G06F009/44

DESIGNATED-STATES: AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB HU JP KP KR KZ LK LU LV  
MG MN MW NL NO NZ PL PT RO RU SD SE SK UA UZ VN AT BE CH DE DK ES FR GB GR IE IT LU MC  
NL OA PT SE DE FR GB IT DE FR GB IT

CITED-DOCUMENTS:3.Jnl.Ref; US 5051898

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
CN 1116007A	January 3, 1994	1994CN-0190839	N/A
WO 9506282A1	January 3, 1994	1994WO-US00012	N/A
AU 9460816A	January 3, 1994	1994AU-0060816	N/A
AU 9460816A	N/A	WO 9506282	Based on
US 5481666A	August 25, 1993	1993US-0112821	N/A
EP 699319A1	January 3, 1994	1994EP-0907131	N/A
EP 699319A1	January 3, 1994	1994WO-US00012	N/A
EP 699319A1	N/A	WO 9506282	Based on
EP 699319B1	January 3, 1994	1994EP-0907131	N/A
EP 699319B1	January 3, 1994	1994WO-US00012	N/A
EP 699319B1	N/A	WO 9506282	Based on
JP09502037W	January 3, 1994	1994WO-US00012	N/A
JP09502037W	January 3, 1994	1995JP-0507539	N/A
JP09502037W	N/A	WO 9506282	Based on
DE69402417E	January 3, 1994	1994DE-0602417	N/A
DE69402417E	January 3, 1994	1994EP-0907131	N/A
DE69402417E	January 3, 1994	1994WO-US00012	N/A
DE69402417E	N/A	EP 699319	Based on
DE69402417E	N/A	WO 9506282	Based on

INT-CL (IPC): G06F 3/14; G06F 9/44; G06F 9/46; G06F 15/00; G06F 17/21; G06F 19/00

ABSTRACTED-PUB-NO: EP 699319B  
BASIC-ABSTRACT:

The object oriented navigation method involves using a processor with an attached memory and display. A document is loaded into the memory and presented on the display. A selection object is created and associated with the document on the display. A reference is associated with the selection object in the memory.

A second document is loaded into the memory and presented on the display. A reference is associated with the first selection in the second document. Navigation is enabled via the reference in the second to the first selection in the first document. Commands can also be performed via a reference on a remote object as if the object resided locally.

USE/ADVANTAGE - In process control systems for e.g. those used to control oil refineries. Provides linkages between data which can be easily redefined. Linkages are flexible and multipurpose.  
ABSTRACTED-PUB-NO:

US 5481666A  
EQUIVALENT-ABSTRACTS:

A method for navigating between document objects in an object-oriented computer system having a processor, a storage attached to and under the control of the processor, a display attached to and under the control of the processor, wherein said document objects contain plurality of model objects determining the type of link between the document objects and wherein each document object may be loaded into the storage and presented on the display, characterised by the steps of: (a) creating a class (TReferencedContainable) of references from an abstract class of containable (TContainable) specifying a link management and view creation protocol of said document objects; (b) creating a selection class (TContainerModelSection) which is subclassed to determine specific selection classes (TCompoundDocumentModel Selection, TFolderSelection) for supporting predefined selection models; (c) loading a first document object into the storage and presenting said first document object on the display; (d) creating a selection object from one of said selection classes (320), said selection object being associated with said first document object in the storage, said selection object identifying a selected portion of one said plurality of model objects; (e) creating (340) a reference grid object (TReferencedContainable) from said class (TReferencedContainable) of references, said reference object including a method to

open and present a referred-to document object; (f) inserting a reference to said selection object into said reference object; (g) loading a second document object into the storage and presenting the second document object on the display; (h) inserting (360) said reference object associated with the first selection object in said second document object as a model object; and (i) navigating via said reference object in the second document object according to the selected portion of the one of the plurality of model objects in the first document object.

A method for navigating between a first and a second document object in a computer system having a processor, a storage attached to and under the control of the processor, a display attached to and under the control of the processor, the first and second document objects each consisting of a container object having therein a plurality of model objects each with a model object interface the method comprising the steps of:

(a) loading the first document object into the storage and presenting the first document object on the display;

(b) creating a first selection object associated with the first document object in the storage, the first selection object identifying a selected portion of one of the plurality of model objects;

(c) creating a reference object having a model object interface;

(d) inserting a reference to the first selection object into the reference object;

(e) loading a second document object into the storage and presenting the second document object on the display;

(f) placing the reference object associated with the first selection object in the second document object as a model object; and

(g) navigating via the reference object in the second document object to the selected portion of the one of the plurality of model objects in the first document object.

WO 9506282A

CHOSEN-DRAWING: Dwg.1/7 Dwg.5/7 Dwg.2/8

TITLE-TERMS: OBJECT ORIENT NAVIGATION METHOD COMPUTER SYSTEM NAVIGATION REMOTE OBJECT ASSOCIATE DOCUMENT COMPUTER SYSTEM LOCAL

DERWENT-CLASS: T01

EPI-CODES: T01-F07; T01-J12D;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1995-084586

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Entry 1 of 1

File: DWPI

Aug 16, 1999

DERWENT-ACC-NO: 1997-052566

DERWENT-WEEK: 199939

COPYRIGHT 2000 DERWENT INFORMATION LTD

TITLE: Computer system for creating semantic object model from existing relational database schema - analyses relationship information stored in catalogue to create object link attributes that define relationships between two or more semantic objects

INVENTOR: KROENKE, D; KROENKE, D M

PATENT-ASSIGNEE: ; WALL DATA INC(; WALLN]

## PRIORITY-DATA:

1995US-0478377

June 7, 1995

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
ES 2132922 T3	August 16, 1999	N/A	000	G06F017/30
WO 9641282 A1	December 19, 1996	E	060	G06F017/30
AU 9660346 A	December 30, 1996	N/A	000	G06F017/30
NO 9705722 A	February 5, 1998	N/A	000	G06F017/30
EP 834141 A1	April 8, 1998	E	000	G06F017/30
JP 10509264 W	September 8, 1998	N/A	085	G06F012/00
US 5819086 A	October 6, 1998	N/A	000	G06F017/30
EP 834141 B1	May 6, 1999	E	000	G06F017/30
DE 69602364 E	June 10, 1999	N/A	000	G06F017/30
AU 706724 B	June 24, 1999	N/A	000	G06F017/30
BR 9608549 A	July 6, 1999	N/A	000	G06F017/30

DESIGNATED-STATES: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT SE SI AL AT BE CH DE DK ES FI FR GB GR IE IT LI LT LU LV MC NL PT SE SI

CITED-DOCUMENTS:GB 2253500; WO 9503586 ; WO 9512172

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
ES 2132922T3	June 3, 1996	1996EP-0917975	N/A
ES 2132922T3	N/A	EP 834141	Based on
WO 9641282A1	June 3, 1996	1996WO-US08563	N/A
AU 9660346A	June 3, 1996	1996AU-0060346	N/A
AU 9660346A	N/A	WO 9641282	Based on
NO 9705722A	June 3, 1996	1996WO-US08563	N/A
NO 9705722A	December 5, 1997	1997NO-0005722	N/A
EP 834141A1	June 3, 1996	1996EP-0917975	N/A
EP 834141A1	June 3, 1996	1996WO-US08563	N/A
EP 834141A1	N/A	WO 9641282	Based on
JP10509264W	June 3, 1996	1996WO-US08563	N/A
JP10509264W	June 3, 1996	1997JP-0501119	N/A
JP10509264W	N/A	WO 9641282	Based on
US 5819086A	June 7, 1995	1995US-0478377	N/A
EP 834141B1	June 3, 1996	1996EP-0917975	N/A
EP 834141B1	June 3, 1996	1996WO-US08563	N/A
EP 834141B1	N/A	WO 9641282	Based on
DE69602364E	June 3, 1996	1996DE-0602364	N/A
DE69602364E	June 3, 1996	1996EP-0917975	N/A
DE69602364E	June 3, 1996	1996WO-US08563	N/A
DE69602364E	N/A	EP 834141	Based on
DE69602364E	N/A	WO 9641282	Based on
AU 706724B	June 3, 1996	1996AU-0060346	N/A
AU 706724B	N/A	AU 9660346	Previous Publ.
AU 706724B	N/A	WO 9641282	Based on
BR 9608549A	June 3, 1996	1996BR-0008549	N/A
BR 9608549A	June 3, 1996	1996WO-US08563	N/A
BR 9608549A	N/A	WO 9641282	Based on

INT-CL (IPC): G06F 12/00; G06F 17/30

ABSTRACTED-PUB-NO: EP 834141B  
BASIC-ABSTRACT:

The system includes a memory with a database catalog stored in it. The catalog defines several relational database tables included within the data base schema and at least one column included within each of the relational database tables. A display displays a semantic object model to a user. A central processing unit, coupled to the memory and to the display, includes a computer program that causes the central processing unit to perform various functions.

The functions are as follows: the data base catalog is analyzed to determine each relational database table defined in the existing relational database schema. Next a semantic object is created within the semantic object model that corresponds to at least one of the relational database tables defined in the relational database schema. Each column defined in the relational database schema is analyzed for the relational database table corresponding to the semantic object created.

ADVANTAGE - Automatic creation of semantic object from existing relational database schema. Model allows user to easily update or modify database schema by manipulating components of semantic object model. This allows users to manipulate relational database without need to understand database management system or query language normally used to edit schema.

ABSTRACTED-PUB-NO:

US 5819086A  
EQUIVALENT-ABSTRACTS:

The system includes a memory with a database catalog stored in it. The catalog defines several relational database tables included within the data base schema and at least one column included within each of the relational database tables. A display displays a semantic object model to a user. A central processing unit, coupled to the memory and to the display, includes a computer program that causes the central processing unit to perform various functions.

The functions are as follows: the data base catalog is analyzed to determine each relational database table defined in the existing relational database schema. Next a semantic object is created within the semantic object model that corresponds to at least one of the relational database tables defined in the relational database schema. Each column defined in the relational database schema is analyzed for the relational database table corresponding to the semantic object created.

ADVANTAGE - Automatic creation of semantic object from existing relational database schema. Model allows user to easily update or modify database schema by manipulating components of semantic object model. This allows users to manipulate relational database without need to understand database management system or query language normally used to edit schema.

The system includes a memory with a database catalog stored in it. The catalog defines several relational database tables included within the data base schema and at least one column included within each of the relational database tables. A display displays a semantic object model to a user. A central processing unit, coupled to the memory and to the display, includes a computer program that causes the central processing unit to perform various functions.

The functions are as follows: the data base catalog is analyzed to determine each relational database table defined in the existing relational database schema. Next a semantic object is created within the semantic object model that corresponds to at least one of the relational database tables defined in the relational database schema. Each column defined in the relational database schema is analyzed for the relational database table corresponding to the semantic object created.

ADVANTAGE - Automatic creation of semantic object from existing relational database schema. Model allows user to easily update or modify database schema by manipulating components of semantic object model. This allows users to manipulate relational database without need to understand database management system or query language normally used to edit schema.

WO 9641282A

CHOSEN-DRAWING: Dwg.4A/12

TITLE-TERMS: COMPUTER SYSTEM OBJECT MODEL EXIST RELATED DATABASE ANALYSE RELATED INFORMATION STORAGE CATALOGUE OBJECT LINK ATTRIBUTE DEFINE RELATED TWO MORE OBJECT

DERWENT-CLASS: T01

EPI-CODES: T01-J05B4B; T01-J05B4C;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1997-043059

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Patent: WO009940505A1

**PCT**WORLD INTELLECTUAL PROPERTY ORGANIZATION  
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification <sup>6</sup> : <b>G06F 3/00, 15/02</b>	<b>A1</b>	(11) International Publication Number: <b>WO 99/40505</b> (43) International Publication Date: 12 August 1999 (12.08.99)
(21) International Application Number: PCT/US98/11946 (22) International Filing Date: 9 June 1998 (09.06.98) (30) Priority Data: 09/020,534 9 February 1998 (09.02.98) US (71) Applicant: INTERNATIONAL BUSINESS MACHINES CORPORATION [US/US]; New Orchard Road, Armonk, NY 10504 (US). (72) Inventor: DESTEFANO, George, Francis; 7658 County Road 19 Southeast, Rochester, MN 55904-6355 (US). (74) Agents: ROTH, Steven, W. et al.; IBM Corporation, Dept. 917, Building 006-1, 3605 Highway 52 North, Rochester, MN 55901-7829 (US).	(81) Designated States: CA, JP, KR, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published With international search report.  <i>Jumbo case</i>	
(54) Title: COMPUTER SYSTEM, METHOD, AND USER INTERFACE COMPONENTS FOR ABSTRACTING AND ACCESSING A BODY OF KNOWLEDGE		
(57) Abstract <p>A computer system and method implement a number of a unique user interface mechanisms to visually link comprehension of the contextual relationship of such information (400). Information may be visually linked by displaying a connector element that extends between first and second windows displayed on a computer display (472). Information may be visually linked by applying one or more filter criteria (470) to information elements (476) and displaying results.</p>		



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Entry 2 of 4

File: DWPI

Aug 12, 1999

DERWENT-ACC-NO: 1999-518399  
DERWENT-WEEK: 199943  
COPYRIGHT 2000 DERWENT INFORMATION LTD

TITLE: Information display method for information on computer

INVENTOR: DESTEFANO, G F

PATENT-ASSIGNEE: ; INT BUSINESS MACHINES CORP[; IBMC]

PRIORITY-DATA:

1998US-0020534

February 9, 1998

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
WO 9940505 A1	August 12, 1999	E	111	G06F003/00

DESIGNATED-STATES: CA JP KR AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
WO 9940505A1	June 9, 1998	1998WO-US11946	N/A

INT-CL (IPC): G06F 3/00; G06F 15/02

ABSTRACTED-PUB-NO: WO 9940505A

BASIC-ABSTRACT:

NOVELTY - Two windows are displayed on a computer display, and are visually linked by displaying a connector element extending between the two windows.

DETAILED DESCRIPTION - User interface mechanisms are used to visually link comprehension of the contextual relationship of information (400). Displaying a connector element that extends between two windows displayed on a computer display (472), is used to visually link the information. Information may be visually linked by applying one or more filter criteria (470) to information elements (476) and displaying results. INDEPENDENT CLAIMS are included for; a program product storing a program for performing a method of displaying information on a computer system; a method for displaying information on a computer system; a computer system for displaying information.

USE - User interface components for abstracting and accessing body of knowledge.

ADVANTAGE - Enables implementation of unique user interface mechanisms for visually linking information presented to a user to facilitate user comprehension of contextual relationship of the information.

DESCRIPTION OF DRAWING(S) - The drawing shows a block diagram of the computer display.

Computer display 22

Information 400

Depth vector 402

Filter criteria 470

Computer display 472

CHOSEN-DRAWING: Dwg.33/41

TITLE-TERMS: INFORMATION DISPLAY METHOD INFORMATION COMPUTER

DERWENT-CLASS: T01

EPI-CODES: T01-J05B1; T01-J05B3; T01-J12B;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1999-385563

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Entry 4 of 4

File: DWPI

Aug 10, 1990

DERWENT-ACC-NO: 1990-280495

DERWENT-WEEK: 199037

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TITLE: Self-disclosing system entity - displays graphic representation of user's model with interactive visual components

PATENT-ASSIGNEE: ANONYMOUS [ANON]

PRIORITY-DATA:

1990RD-0316045

July 20, 1990

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
RD 316045 A <sub>1</sub>	August 10, 1990	N/A	000	N/A

INT-CL (IPC): G06F 0/01

ABSTRACTED-PUB-NO: RD 316045A

BASIC-ABSTRACT:

The system entity uses a technique for self-disclosure of functionality via object-oriented and graphical techniques. The concept of 'Entity Self-Disclosure' is provided in order to overcome learning problems of conceptual and operational use of the system. The basic technique is: the user selects an entity for Self-Disclosure; the user then selects the 'Disclose' action; the system displays a graphic representation of the User's Model for the entity. Each visual component of the graphic is interactive. Each entity represented is selectable to gain additional information. Objects and relationships are explained.

Although conventional techniques can be used, the visual approach is more efficient for conveying conceptual, structural, and relationship information, especially if done in an object-oriented manner. If the conceptual level of information is not necessary, then the user can interact with the conventional help system, e.g., contextual help.

ADVANTAGE - New functionality and on-line help, improved learning of functionality, and improved usability and productivity.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SELF DISCLOSE SYSTEM ENTITY DISPLAY GRAPHIC REPRESENT USER MODEL INTERACT VISUAL COMPONENT

DERWENT-CLASS: T01

EPI-CODES: T01-J10C;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1990-216328

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Entry 9 of 17

File: DWPI

Jun 1, 1998

DERWENT-ACC-NO: 1997-119204

DERWENT-WEEK: 200009

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TITLE: Modifying existing relational database for reflecting changes in object model - automatically generating proposed relational data schema in response to changes made by user to object model, comparing current and proposed schemas and modifying relational database

INVENTOR: KAWAI, K

PATENT-ASSIGNEE: ; WALL DATA INC[; WALLN]

## PRIORITY-DATA:

1995US-0499392

July 7, 1995

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
MX 9709100 A1	June 1, 1998	N/A	000	G06F017/30
WO 9703406 A1	January 30, 1997	E	082	G06F017/30
AU 9662517 A	February 10, 1997	N/A	000	G06F017/30
US 5717924 A	February 10, 1998	N/A	049	G06F017/30
NO 9800068 A	January 6, 1998	N/A	000	G06F017/30
EP 838060 A1	April 29, 1998	E	000	G06F017/30
JP 10511200 W	October 27, 1998	N/A	098	G06F017/30
BR 9609569 A	March 2, 1999	N/A	000	G06F017/30
AU 703408 B	March 25, 1999	N/A	000	G06F017/30

DESIGNATED-STATES: AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ VN AT BE CH DE DK EA ES FI FR GB GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

CITED-DOCUMENTS:2.Jnl.Ref; EP 534466 ; WO 9512172

## APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-NO
MX 9709100A1	November 25, 1997	1997MX-0009100	N/A
WO 9703406A1	June 3, 1996	1996WO-US08571	N/A
AU 9662517A	June 3, 1996	1996AU-0062517	N/A
AU 9662517A	June 3, 1996	1996WO-US08571	N/A
AU 9662517A	N/A	WO 9703406	Based on
US 5717924A	July 7, 1995	1995US-0499392	N/A
NO 9800068A	June 3, 1996	1996WO-US08571	N/A
NO 9800068A	January 6, 1998	1998NO-0000068	N/A
EP 838060A1	June 3, 1996	1996EP-0921258	N/A
EP 838060A1	June 3, 1996	1996WO-US08571	N/A
EP 838060A1	N/A	WO 9703406	Based on
JP 10511200W	June 3, 1996	1996WO-US08571	N/A
JP 10511200W	June 3, 1996	1997JP-0505801	N/A
JP 10511200W	N/A	WO 9703406	Based on
BR 9609569A	June 3, 1996	1996BR-0009569	N/A
BR 9609569A	June 3, 1996	1996WO-US08571	N/A
BR 9609569A	N/A	WO 9703406	Based on
AU 703408B	June 3, 1996	1996AU-0062517	N/A
AU 703408B	N/A	AU 9662517	Previous Publ.
AU 703408B	N/A	WO 9703406	Based on

INT-CL (IPC): G06F 12/00; G06F 17/30

ABSTRACTED-PUB-NO: US 5717924A  
BASIC-ABSTRACT:

The method of modifying an existing database involves storing an object model in memory of a computer system. A visual representation of the object model is displayed. A current relational database schema which defines relational tables in the data base and columns in these is stored in the memory. Modifications to the object model which are made by a user are detected.

A relational database schema corresponding to the modified model is automatically produced and compared to the current schema. The database is changed with the modified schema automatically.

USE/ADVANTAGE - For computer system. Easy for unskilled user to modify database due to automatically changing schema.  
ABSTRACTED-PUB-NO:

WO 9703406A  
EQUIVALENT-ABSTRACTS:

The method of modifying an existing database involves storing an object model in memory of a computer system. A visual representation of the object model is displayed. A current relational database schema which defines relational tables in the data base and columns in these is stored in the memory. Modifications to the object model which are made by a user are detected.

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CHOSEN-DRAWING: Dwg.9a/15d Dwg.2/14

TITLE-TERMS: MODIFIED EXIST RELATED DATABASE REFLECT CHANGE OBJECT MODEL AUTOMATIC

GENERATE PROPOSED RELATED DATA RESPOND CHANGE MADE USER OBJECT MODEL COMPARE CURRENT  
PROPOSED MODIFIED RELATED DATABASE

DERWENT-CLASS: T01

EPI-CODES: T01-F07; T01-J05B4B; T01-J05B4M; T01-S01B;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1997-098127

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